



powered by  
**niagara**  
framework<sup>®</sup>

Made in USA

## JENEsys Edge 514 Specifications

- ✓ Powered by Niagara 4
- ✓ Open NiCS
- ✓ Supports JAVA Web Start
- ✓ Standard Niagara 4 drivers—Niagara 4 Network (Fox), BACnet, Modbus, Web & oBIX
- ✓ 4 Digital Outputs
  - Form A contacts, 24 V at 0.5 A
- ✓ 4 Analog Outputs
  - 0-10 Vdc
- ✓ 6 Universal Inputs
  - Type-3 10 K ohm thermistors
  - Resistance 0-100 K ohms
  - 0-10 Vdc
  - 0-20 mA using a 499 ohm resistor
  - Pulse input; up to 500 Hz
- ✓ 10/100 Mbps Ethernet (2), RS-485 (2), Mini-B USB (1), Micro USB (1)
- ✓ Standard RS-485 multi-drop communication bus
- ✓ 4G eMMC flash memory
- ✓ 1GHz AM335x ARM Cortex A8 Processor
- ✓ Existing Niagara 4 stations can be added
- ✓ 24 Vac/dc power input, ideal for equipment control and monitoring applications
- ✓ Runs on Onyx<sup>®</sup>—an extensible platform
- ✓ Leverages global capacity licenses
- ✓ 35 mm DIN rail or flat panel mounting

## Deliver the Reliability of Niagara<sup>®</sup> to the Edge

*Buildings, Energy Management Applications, Equipment, Machine-to-Machine*

The JENEsys Edge 514 is a fully programmable Niagara controller with 14 IO built in and expandable IO available, delivering edge connectivity, control, data access and analytics for today's buildings, energy management applications, equipment and machine-to-machine applications within a secure environment.

Taking Niagara 4 to the edge with real-time control—the JENEsys Edge 514 *utilizes the same familiar ProBuilder/Workbench software, Niagara programming tools and Fox Protocol.*

## Connect & Access Data—Anytime, Anywhere

Purpose-built, Lynxspring's JENEsys Edge 514 delivers edge connectivity, control, data access and control for today's small to mid-sized facilities, plant and equipment control, machine-to-machine applications that require smart edge technology.

## Reduce Engineering Time & Installation Costs

The JENEsys Edge 514 combines Niagara 4 with Onyx, a proven IoT edge hardware platform, enabling facility managers, operators, system integrators and contractors to use a known user interface (ProBuilder/Workbench) to achieve operational efficiencies between multiple systems and/or devices, facility management functions, equipment control and business applications.

## Features

- ✓ Fully programmable Niagara controller; Fox Protocol
- ✓ Same Programming Tools—ProBuilder/Workbench
- ✓ 14 points of IO on-board and enables an Onyx Network
- ✓ Add up to 8 additional extender modules (*at 34 points of IO each*) for a maximum of 286 points
- ✓ Fast & increased memory capacity
- ✓ Small unit footprint
- ✓ Real-time Linux OS

## Warranty

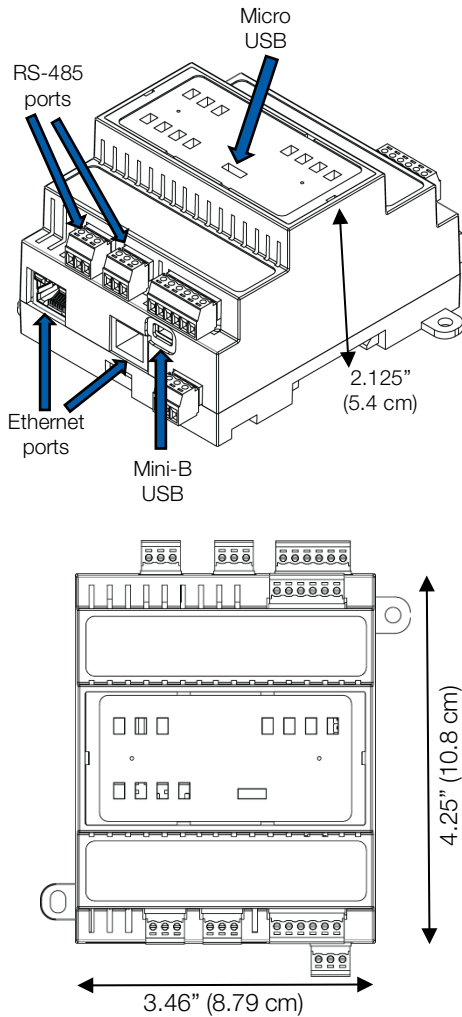
All products and services purchased through Lynxspring are warranted for a period of eighteen (18) months from date of shipment (the "Warranty Period") unless otherwise noted in a Limited Warranty included with a Product. The Warranty Period does not cover damage by abuse, accident, misuse, neglect, alteration, self-repair, improper installation, failure of supporting products and systems including electric power or exposure to conditions that exceed the Product stated recommendations.

For Complete warranty information, please refer to Lynxspring's Terms and Conditions of Product Sale.

# JENEsys<sup>®</sup> Edge<sup>™</sup> 514

## PRODUCT DATA SHEET

### Dimensions



### Specifications

#### PLATFORM

Operating System	Helixx <sup>®</sup> Framework by Lynxspring <sup>®</sup> and Niagara <sup>®</sup> 4
Processor	1 GHz AM335x ARM Cortex A8
Memory	512 MB DDR3L 800 MHz, 4 GB 8-bit Embedded MMC on-board Flash
Real-Time Clock (RTC)	Battery-powered clock included to store description/setup values including year, month, date, hours, minutes and seconds.

#### COMMUNICATION PORTS

2 Ethernet Ports	10/100 Mbps ( <i>RJ-45 Connector</i> )
2 RS-485 Ports	RS-485 serial port with 3-screw connector
Mini-B USB	USB Client Connector utilizes 5-pin Mini-B USB cable
Micro USB	Serial shell access
Onyx Network	3-wire (LxH LxL SHLD) high-speed differential serial signal

#### INPUTS AND OUTPUTS

6 Universal Inputs	Type-3 10 K ohm thermistors; resistance 0-100 K ohms; 0-10 Vdc; 0-20 mA using a 499-ohm resistor; pulse input: up to 500 Hz; 12-bit A/D resolution
4 Digital Outputs	Form A contacts, 24 V at 0.5 A
4 Analog Outputs	0-10 Vdc
Connector Screw Size	3/32" slotted
Supported Wire Size	28-16 AWG
Housing	UL94V-0

#### POWER

Power Input	External 24 Vac/dc +10%/-10%, 50/60 Hz, minimum 18 VA/device
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#### CHASSIS

Construction	Base: Plastic, DIN rail or screw mount	Cover: Plastic
Cooling	Internal air convection	
Dimensions	3.46" (8.79 cm) width x 4.25" (10.8 cm) length x 2.125" (5.4 cm) depth	
Mounting	Flat panel and 35 mm DIN rail mounting options standard	

#### ENVIRONMENT

Operating Temperature	0 – 60 °C (32 – 140 °F)
Storage Temperature	0 – 70 °C (32 – 158 °F)
Relative Humidity Range	5 – 95% RH, non-condensing

#### CERTIFICATIONS

Compliance	Pending: FCC 47CFR Parts 15B and 18, EN 55022, EN 55011, ICES-003, RoHS. UL 916, CSA C22.2 No. 205-12, EN 61010-1: 2010, IEC 61010-1, 3rd edition
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#### WEIGHT

JENE-EG514	0.6 pounds	Product and Packaging	0.8 pounds
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### Ordering Information

PART NUMBER(S)	DESCRIPTION
JENE-EG514-100	Packaging will include one (1) JENEsys Edge 514 Controller (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)
JENE-EG514-300	Packaging will include one (1) JENEsys Edge 514 Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 5 DEVICES)

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